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**U.S. PATENT DOCUMENTS**

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## **FOREIGN PATENT DOCUMENTS**

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<sup>1</sup> Unique citation designation number <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		Application Number	09/909,574
		Filing Date	July 20, 2001
		First Named Inventor	Frank A. Skraly
		Group Art Unit	1645
		Examiner Name	
Sheet	2	of	5
		Attorney Docket Number	MBX 039

OTHER ART – NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
YD		BALDOMÁ & AGUILAR, "Involvement of Lactaldehyde dehydrogenase in several metabolic pathways of <i>Escherichia coli</i> K12," <i>J. Biol. Chem.</i> 262:13991-96 (1987).	
YD		BOENIGK, et al., "Fermentation of glycerol to 1,3-propanediol in continuos cultures of <i>Citrobacter freundii</i> ," <i>Appl. Microbiol. Biotechnol.</i> 38:453-57 (1993).	
YD		BRAUNEGG, et al., "Polyhydroxyalkanoates, biopolymers from renewable resources: physiological and engineering aspects," <i>J. Biotechnology</i> 65:127-61 (1998).	
YD		CADWELL, et al., "Randomization of genes by PCR mutagenesis, <i>PCR Methods and Applications</i> 2:28-33 (1992).	
YD		DENNIS, et al., "Formation of poly (3-hydroxybutyrate-co-3-hydroxyhexanoate) by PHA synthesis from <i>Ralstonia eutropha</i> ," <i>J. Biotechnology</i> 64:177-86 (1998).	
YD		DOI, "Microbial Synthesis, Physical Properties, and Biodegradability of Polyhydroxyalkanoates," <i>Macromol. Symp.</i> 98:585-599 (1995).	
YD		DOI, et al., "Biosynthesis and characterization of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) in <i>Alcaligenes eutrophus</i> ," <i>Int. J. Biol. Macromol.</i> 12: 106 (1990).	
YD		ERICKSON, et al., "Enhanced biodegradation of polychlorinated biphenyls after site-directed mutagenesis of a biphenyl dioxygenase gene," <i>Appl. Environ. Microbiol.</i> 59:3858-62 (1993).	
YD		FORAGE & FOSTER, "Glycerol fermentation in <i>Klebsiella pneumoniae</i> : functions of the coenzyme b12-dependent glycerol and diol dehydratases," <i>J. Bacteriol.</i> 149:413-419 (1982).	
YD		HERMES, et al., "Searching sequence space by definable random mutagenesis: improving the catalytic potency of an enzyme," <i>Proc. Natl. Acad. Sci. USA</i> 87:696-700 (1990).	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>O I P S C I S A</i> <i>MAY 06 2002</i> <i>PATENT &amp; TRADEMARK OFFICE</i>		Application Number	09/909,574
		Filing Date	July 20, 2001
		First Named Inventor	Frank A. Skraly
		Group Art Unit	1645
		Examiner Name	
Sheet	4	of	5
		Attorney Docket Number	MBX 039

OTHER ART – NON PATENT LITERATURE DOCUMENTS		
Examiner's Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
<i>Yn</i>		REIDHAAR-OLSON, et al., Combinatorial cassette mutagenesis as a probe of the informational content of protein sequences," <i>Science</i> 241:53-57 (1988).
<i>Yn</i>		SAITO & DOI, "Microbial synthesis and properties of poly(3-hydroxybutyrate-co-4-hydroxybutyrate) in <i>Cornamonas acidovorans</i> ," <i>Int. J. Biol. Macromol.</i> 16:99 (1994).
<i>Yn</i>		SAITO, et al., "Microbial Synthesis and properties of Poly(3-hydroxybutyrate-co-4-hydroxybutyrate)," <i>Polym. Int.</i> 39:169 (1996).
<i>Yn</i>		SKRALY, et al., "Construction and characterization of a 1,3-propanediol operon," <i>Appl. Environ. Microbiol.</i> 64:98-105 (1998).
<i>Yn</i>		SÖHLING & GOTTSCHALK, "Molecular analysis of the anaerobic succinate degradation pathway in <i>Clostridium kluyveri</i> ," <i>J. Bacteriol.</i> 178:871-880 (1996).
<i>Yn</i>		SPIEKERMANN, et al, "A sensitive, viable-colony staining method using Nile red for direct screening of bacteria that accumulate polyhydroxyalkanoic acids and other lipid storage compounds," <i>Arch Microbiol.</i> 171:73-80 (1999).
<i>Yn</i>		STEMMER, "DNA shuffling by random fragmentation and reassembly: in vitro recombination for molecular evolution," <i>Proc. Natl. Acad. Sci. USA</i> 91:10747-51 (1994).
<i>Yn</i>		STEMMER, "Rapid evolution of a protein in vitro by DNA shuffling," <i>Nature</i> 370:389-91 (1994).
<i>Yn</i>		STREEKSTRA, et al., "Overflow metabolism during anaerobic growth of <i>Klebsiella aerogenes</i> NCTC 418 on glycerol and dihydroxyacetone in chemostat culture," <i>Arch. Microbiol.</i> 147:268-75 (1987).
<i>Yn</i>		VALENTIN, et al., "Identification of 4-hydroxyhexanoic acid as a new constituent of biosynthetic polyhydroxyalkanoic acids from bacteria," <i>Appl. Microbiol. Biotechnol.</i> 40:710-16 (1994).

Examiner's Signature	<i>Yn</i>	Date Considered	1.22.03
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Substitute for form 1449A/PTO		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/909,574
Filing Date	July 20, 2001		
First Named Inventor	Frank A. Skraly		
Group Art Unit	1645		
Examiner Name			
Sheet	5	of	5
		Attorney Docket Number	MBX 039

#### **OTHER ART - NON PATENT LITERATURE DOCUMENTS**

Examiner's Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
<i>gm</i>		VALENTIN, et al., "Identification of 4-hydroxyvaleric acid as a constituent of biosynthetic polyhydroxyalkanoic acids from bacteria," <i>Appl. Microbiol. Biotechnol.</i> 36:507-14 (1992).	
<i>gm</i>		VAN BEILEN, et al., "DAN sequence determination and functional characterization of the OCT-plasmid-encoded <i>alkJKL</i> genes of <i>Pseudomonas oleovorans</i> ," <i>Mol. Microbiol.</i> 6: 3121-36 (1992).	
<i>gm</i>		VASILIOU, et al., "Eukaryotic aldehyde dehydrogenase (ALDH) genes: human polymorphisms, and recommended nomenclature based on divergent evolution and chromosomal mapping," <i>Pharmacogenetics</i> 9:421-34 (1999).	

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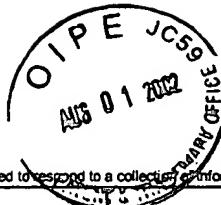
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GJY		DAINIEL, et al., "Purification of 1,3-Propanediol dehydrogenase from <i>Citrobacter freundii</i> and cloning, sequence, and overexpression of the corresponding gene in <i>E. coli</i> ," <i>Journal of Bacteriology</i> 177(8):2151-2156 (1995).	
YJP		HILJANEN-VAINO, et al., "Biodegradable lactone copolymers. I. Characterization and mechanical behavior of ε-caprolactone and lactide copolymers," <i>Journal of Applied Polymer Science</i> 59(8):1281-88 (1996).	
YJM		STEINBUCHEL & VALENTIN, "Diversity of bacterial polyhydroxyalkanoic acids," <i>FEMS Microbiology Letters</i> 128:219-228 (1995).	

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		Filing Date	July 20, 2001
		First Named Inventor	Frank A. Skraly
		Group Art Unit	1652
		Examiner Name	Yong . Pak
		Attorney Docket Number	MBX 039
Sheet	1	of	2

## **U.S. PATENT DOCUMENTS**

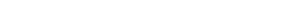
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		Office. <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
g.	GB	1 123 445			Du Pont	08-14-1968		
ch	JP	05 342903			Mitsui Toatsu Chem, Inc.	12-24-1993		
ly	JP	06 016790			Toyobo Co. Ltd.	01-25-1994		
g.	JP	06 304253			Mitsui Toatsu Chem, Inc.	03-31-1995		
g.	JP	08 226016			Mitsubishi Rayon Co. Ltd.	01-31-1997		

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Attorney Docket Number	MBX 039

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<sup>1</sup> Unique citation designation number <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant to place a check mark here if English language Translation is attached.

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